



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50C1 BYPASS RATIO: 4.3
 UNIQUE ID NUMBER: 3GE073 PRESSURE RATIO (π_{00}): 28.4
 COMBUSTOR: Low emissions fuel nozzle
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 230.4

REGULATORY DATA

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|------|------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 5.3 | 36.6 | 59.8 | 16.1 |
| AS % OF ORIGINAL LIMIT | 27.0 | 31.0 | 61.7 | 85.5 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 77.2 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 92.7 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 105.3 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 124.8 | |

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | EMISSIONS INDICES (g/kg) | | | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|--------------------------|-------------|-----------------|--------------|
| | | | | HC | CO | NO _x | |
| TAKE-OFF | 100 | 0.7 | 2.361 | 0.14 | 0.45 | 28.97 | 11.0 |
| CLIMB OUT | 85 | 2.2 | 1.940 | 0.15 | 0.45 | 25.50 | 11.7 |
| APPROACH | 30 | 4.0 | 0.663 | 0.28 | 3.71 | 10.16 | 1.6 |
| IDLE | 7 | 26.0 | 0.163 | 2.72 | 24.04 | 3.40 | 1.4 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 769 | 788 | 6863 | 11884 | - |
| NUMBER OF ENGINES | | | | 1 | 1 | 1 | 1 |
| NUMBER OF TESTS | | | | 3 | 3 | 3 | 3 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 3.4 | 29.8 | 51.6 | 12.5 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 0.2 | 0.4 | 2.8 | 1.8 |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | 3.28-3.58 | 29.42-30.28 | 49.71-54.8 | 10.68-14 |

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|---------------|
| BAROMETER (kPa) | 97.7-97.9 |
| TEMPERATURE (K) | 292.3-301.3 |
| ABS HUMIDITY (kg/kg) | 0.0127-0.0216 |

FUEL

| | |
|----------|-------|
| SPEC | Jet A |
| H/C | 1.94 |
| AROM (%) | 16.3 |

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: GE Development/Production Test Operation
 TEST LOCATION: Site IVD, Peebles, Ohio
 TEST DATES: 28/07/1987-29/07/1987

REMARKS

1. Engine equipped with low emissions fuel nozzle config.
2. GE Report R87AEB559.
3. Engine 530375/001.
4. Idle emissions calculated at normal idle setting rather than 7%.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)